Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-26-123 **Date: 22-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-11-18
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-26-123** **Date: 18-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-11-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-26-123** **Date: 22-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-11-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	165	165	1.1	98.9	90-100
3	10 mm	2287	2452	16.3	83.7	25-55
4	4.75 mm	2087	4539	30.3	69.7	0-10
	Pan	461	5000	33.3	66.7	_
	Pan	233	5233	34.9	65	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-26-123** **Date: 22-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.1	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-26-123** **Date: 22-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	165	165	3.3	96.7	90-100
3	10 mm	2287	2452	49.0	51.0	25-55
4	4.75 mm	2087	4539	90.8	9.2	0-10
	Pan	461	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-12-26-123 **Date: 22-11-18**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at at Best County II in Ward No.03

Agency : Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-11-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-11-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	227	404	40.4	59.6	30-70	55-90	75-100	90-100
5	600 micron	109	513	51.3	48.7	15-34	35-59	60-79	80-100
6	300 micron	288	801	80.1	19.9	5-20	8-30	12-40	15-50
7	150 micron	142	943	94.3	5.7	0-10	0-10	0-10	0-15
8	Pan	57	1000	100.0	0.0	---	---	---	---

Result :The tested sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-26-123** **Date: 24-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-11-18

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.394	514	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.614	530	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.886	546	664	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2018

Lab ID	:	CP-2018-12-26-123
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-18
Customer ID	:	Drain Bottom Base Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	149.65 X 150.78 X 150.68	22563	8.357	417.8	18.5	18.3
2	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	151.35 X 151.39 X 151.80	22912	8.706	413.3	18.0	
3	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	150.52 X 149.72 X 150.75	22536	8.938	415.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/12/2018

Lab ID	:	CP-2018-12-26-123
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-18
Customer ID	:	Drain Bottom Base Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Base Concrete	M20	26/11/2018	24/12/2018	149.97 X 149.94 X 150.66	22487	8.715	527.1	23.4	23.2
2	Drain Bottom Base Concrete	M20	26/11/2018	24/12/2018	150.19 X 151.70 X 149.92	22784	8.261	517.1	22.7	
3	Drain Bottom Base Concrete	M20	26/11/2018	24/12/2018	150.91 X 149.64 X 151.32	22582	8.655	531.9	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-26-123

Date: 03/12/2018

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at at Best County II in Ward No.03

Agency : Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-11-18

Customer ID : Drain Bottom Base Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	151.07 X 151.60 X 151.50	22902	8.357	434.6	19.0	18.8
2	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	151.53 X 149.27 X 149.11	22618	8.706	420.3	18.6	
3	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	151.68 X 150.47 X 149.89	22823	8.938	428.4	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-26-123** **Date: 03/12/2018**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at at Best County II in Ward No.03

Agency : Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-11-18

Customer ID : Drain Bottom Base Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	150.84 X 149.75 X 149.29	22589	8.357	409.5	18.1	18.4
2	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	151.96 X 149.44 X 150.11	22709	8.706	408.8	18.0	
3	Drain Bottom Base Concrete	M20	26/11/2018	03/12/2018	149.98 X 151.66 X 151.27	22746	8.938	431.9	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-26-123** **Date: 06/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at at Best County II in Ward No.03
Agency	:	Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-18
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	150.44 X 149.40 X 151.70	22475	8.357	421.3	18.7	18.7
2	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	150.23 X 150.05 X 150.63	22542	8.706	425.0	18.9	
3	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	150.19 X 150.50 X 151.12	22602	8.938	417.3	18.5	

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-26-123 **Date: 06/12/2018**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at at Best County II in Ward No.03

Agency : Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	150.97 X 151.98 X 151.40	22945	8.357	420.0	18.3	18.2
2	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	149.38 X 151.24 X 149.37	22592	8.706	413.5	18.3	
3	Drain Side Wall Concrete	M20	29/11/2018	06/12/2018	151.72 X 149.15 X 151.37	22630	8.938	409.7	18.1	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-26-123 **Date: 27/12/2018**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at at Best County II in Ward No.03

Agency : Sri.D.V.Kumar,No:657,5th Main,G.Ramanna Layout, Laggere,Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/11/2018	27/12/2018	149.73 X 150.88 X 151.79	22592	8.715	530.4	23.5	23.4
2	Drain Side Wall Concrete	M20	29/11/2018	27/12/2018	151.84 X 150.47 X 149.47	22848	8.261	522.3	22.9	
3	Drain Side Wall Concrete	M20	29/11/2018	27/12/2018	151.91 X 151.88 X 150.64	23072	8.655	548.1	23.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

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